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and a abundance ratio is measured by an absorbance in accordance with said a respective pair of wavelengths.

In the Abstract

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The present invention provides a spectroscopic method for analyzing isotopes which makes it possible to simplify a system for measurement and to identify isotopes with high accuracy and sensitivity and to carry out a quantitative analysis. The spectroscopic method for analyzing isotopes uses a semiconductor laser beam having as a wavelength zone a 2000 nm-wavelength band as a beam source of wavelengths of the absorption spectra of the isotopes. A reference gas is used for identification of the isotopes where the gas contains collating components having two wavelengths (W1, W2) of well known absorption spectra in wavelength bands close to the wavelengths (w1, w2) of the absorption spectra of the isotopes.